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  Radiation sensitive compsns. providing relief images of increased
  resolution - consists of resin binder e.g. polyphenol- based resin, acid
  generating cpd. and complexing polar cpd., used for controlling diffusion
  of photo-generated acid
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Abstract (Basic): EP 537524 A
         The compsn. comprises (A) a resin binder, (B) an acid generator
    cpd., and (C) a complexing polar cpd.

Also claimed are: (1) a process for enhancing resolution of a
    photoacid-generating compsn. in which a polar cpd., pref. (C), is added to the compsn., the pka of (c) being 8.0 or less; (2) a process for
    controlling acid diffusion of a photoacid-generating compsn. by adding
    a polar cpd. to the compsn. and applying the resulting layer to a
    substrate; exposing to activating radiation to generate a latent image
    consisting of acid gps. complexed with the polar cpd.; and treating the
    exposed compsn. to produce acid; and (3) a process for forming a relief image in which a layer of the radiation sensitive compsn. is applied to
    a substrate, and exposing and developing the yield a relief image; the
     compsn. consisting of (A), (B) and (C).
          USE/ADVANTAGE - The compsns. are applied to substrates used in
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processes involving coating with photoresists, e.g. application over silicon/silicon dioxide wafers for the prodn. of microprocessor and other integrated circuit components. A further suitable use of the compsn. is as a planarising layer or for formation of multiple layers. Loss of contrast due to the effects of acid diffusion during post exposure residence times is effectively controlled. Relief images are

formed having enhanced resolutin p

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